$$
\begin{aligned}
\varepsilon &= 10^{-4} \\
\lambda_i &= \frac{2\langle n_i + \langle n_i, n_j\rangle n_j, v_j - v_i\rangle}{1 - \langle n_i, n_j\rangle^2 + \varepsilon} \\
\lambda_j &= \frac{2\langle n_j + \langle n_j, n_i\rangle n_i, v_i - v_j\rangle}{1 - \langle n_j, n_i\rangle^2 + \varepsilon} \\
q_{ij} &= \frac{1}{2}(v_i + v_j) - \frac{1}{4}(\lambda_i n_i + \lambda_j n_j)
\end{aligned}
$$

where

$$
\begin{aligned}
v_i &\in \mathbb{R}^3 \\
n_i &\in \mathbb{R}^3 \\
v_j &\in \mathbb{R}^3 \\
n_j &\in \mathbb{R}^3
\end{aligned}
$$